

Record 2: JP5255440A

(ENG) PRODUCTION OF ETHYLENIC POLYMER

Assignee: IDEMITSU PETROCHEM CO LTD

[no drawing available]

Inventor(s): YAMAMOTO ISAMU

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Abstract: (ENG) <sec>PURPOSE: To obtain the subject polymer excellent in below moldability and in the balance between rigidity and environmental stress cracking resistance by performing an excellent three-stage polymerization in the presence of a specific catalyst. CONSTITUTION: When ethylene or its mixture with an α -olefin is polymerized or copolymerized in the presence of a catalyst comprising (A) a solid catalyst component containing a magnesium alkoxide, a Ti compound and an aluminum halide, (B) an organic Al compound and (C) an electron donor, the polymerization or copolymerization reaction is performed by the first step reaction under conditions comprising an η_1 of 7-20dl/p, a P1 of 10-20wt.% and an α_1 of 0-5%, by the second step reaction under conditions comprising a η_2 of 0.5-1.5dl/g, a (p2+p3) of 80-90% and an α_2 of 0-5% and satisfying the inequality, and subsequently by the third step reaction under conditions comprising an η_3 of 0.5-1.5dl/g and an α_3 of 0-5%, wherein the P1, P2 and P3 are the amounts of the polymers produced in the first, second and third steps on the basis of the whole amount of the polymers, η_1 , η_2 and η_3 are the intrinsic viscosities of the polymers, and the α_1 , α_2 and α_3 are the amounts of the α -olefin units in the polymers, respectively.</sec>

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